## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference ETH5084PCT	FOR FURTHER ACTION as well	see Form PCT/ISA/220 as well as, where applicable, item 5 below.					
International application No. PCT/US04/23779	International filing date (day/month/y 23 July 2004 (23.07.2004)						
Applicant ETHICON, INC.							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of sheets.  It is also accompanied by a copy of each prior art document cited in this report.							
Basis of the Report     With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).							
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.							
2. Certain claims were found unsearchable (See Box No. II)							
3. Unity of invention is lacking (See Box No. III)							
4. With regard to the title,  the text is approved as subm	itted by the applicant						
	by this Authority to read as follows:						
5. With regard to the abstract,							
the text is approved as submi	tted by the applicant.						
		hority as it appears in Box No. IV. The applicant search report, submit comments to this Authority.					
6. With regard to the drawings,  a. the figure of the drawings to be published with the abstract is Figure No  as suggested by the applicant.							
as selected by this Authority, because the applicant failed to suggest a figure.							
as selected by this Authority, because this figure better characterizes the invention.							
b. none of the figures is to be published with the abstract.							

Form PCT/ISA/210 (first sheet) (January 2004)

#### INTERNATIONAL SEARCH REPORT

International applic

PCT/US04/2377

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:					
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:					
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet					
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.					
<ol> <li>As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.</li> </ol>					
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:					
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-18					
Remark on Protest The additional search fees were accompanied by the applicant's protest.					
No protest accompanied the payment of additional search fees.					
form PCT/ISA/210 (continuation of first sheet/2)) (January 2004)					

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/23779

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 9/14, 9/16, 38/17; C07K 17/00							
US CL : 424/489, 491, 492, 493; 530/354, 356, 384; 514/54							
According to International Patent Classification (IPC) or to both national classification and IPC							
<u> </u>	DS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 424/489, 491, 492, 493; 530/354, 356, 384; 514/54							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet							
	UMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where	Relevant to claim No.					
Α	US 5,143,838 A (KRAUS et al) 01 September 199	1-18					
Α ·	US 6,045,570 A (EPSTEIN et al) 04 April 2000 (04.04.2000), cols. 1 and 2.			1-18			
A	US 6,566,345 B2 (MILLER et al) 20 May 2003 (05.20.2003), cols. 2-4 and 6.			1-18			
Friedha	downwate and listed in the continuation of Pay C			,			
	documents are listed in the continuation of Box C.	<u> </u>	See patent family annex.				
•			later document published after the internand not in conflict with the application be principle or theory underlying the inventi-	at cited to understand the			
•	lication or patent published on or after the international filing date	"X"	document of particular relevance; the claic considered novel or cannot be considered	imed invention cannot be I to involve an inventive step			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		-Y-	"Y" document of particular relevance; the claimed invention considered to involve an inventive step when the docum with one or more other such documents, such combination				
"O" document	referring to an oral disclosure, use, exhibition or other means		to a person skilled in the art				
"P" document priority dat	published prior to the international filing date but later than the c claimed	"&"	document member of the same patent fan	nily			
Date of the actual completion of the international search		Date of me	Date of mailing of the international search report				
07 August 2005 (07.08.2005)		Authoria	161EU 2009	1111 - 1			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Authorized officer EC 2009  Abdel Al Moharriert  Telephorie No. (871) 2/2-1000					
Facsimile No.	(703) 305-3230	\	,				

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INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/23779

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING Group I, claim(s) 1-18, drawn to a process for making a flowable composition.

Group II, claim(s) 19-28, drawn to a process for making a medical device for applying hemostatic composition.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: There is no Unity of Invention between the process of Group I and the medical device of Group II because the process for making a flowable hemostatic composition reads on a method of producing fro example, thrombin as acknowledged on page 7, lines 22-25 in the instant disclosure and as taught by U.S. Patent No. 5,143,838. Similarly, the medical device of Group II reads on mixing apparatus comprising an applicator device such as syringe for filling as acknowledged on page 7, last paragraph in the instant disclosure and as taught by U.S. Patent No. 6,045,570. There is no Unity of Invention of the process of making the composition of Group I with the process of making medical device of Group II because the groups do not share the same special technical features, the inventions do not relate to single inventive concept.

Continuation of B. FIELDS SEARCHED Item 3:

APS, CAS ONLINE, MEDLINE, EMBASE, BIOSIS, WPIDS

search terms: hemostatic compos? or hemostasis comp? or blood coagulat? or platelet activat?; biocompatible polymer? or polysaccharide? or protein? or gelatin or collagen or fibrinogen or thrombin?; benzalkonium or glycerol; gas or air or nitrogen or carbon dioxide or xenon or argon; radio opaque or antimicrobial? or foam? or foam stabil?

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